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ABSTRACT OF THE DISCLOSURE

A method for transmitting image data of a scanner is disclosed, in which the transmitted image data is divided into two portions, i.e., the uncompressed portion of low-resolution data and the compressed portion of the data difference. The compressed portion of the data difference can be decompressed and then combined with the uncompressed portion of low-resolution data to obtain an image in a high resolution. Thus the scanned image in a low resolution, a medium resolution or a high resolution can be optionally displayed. While displaying the scanned image, the low-resolution image can be first displayed. If the low-resolution image is acceptable, the compressed-data difference values do not need to be processed and can be directly disregarded. Therefore, the data to be transmitted and processed during the scanning process can be reduced to accelerate the scanning and displaying speed. On the contrary, if the low-resolution image is not acceptable, the compressed-data difference values can be further decompressed and then combined with the low-resolution image data to obtain a high-resolution image.